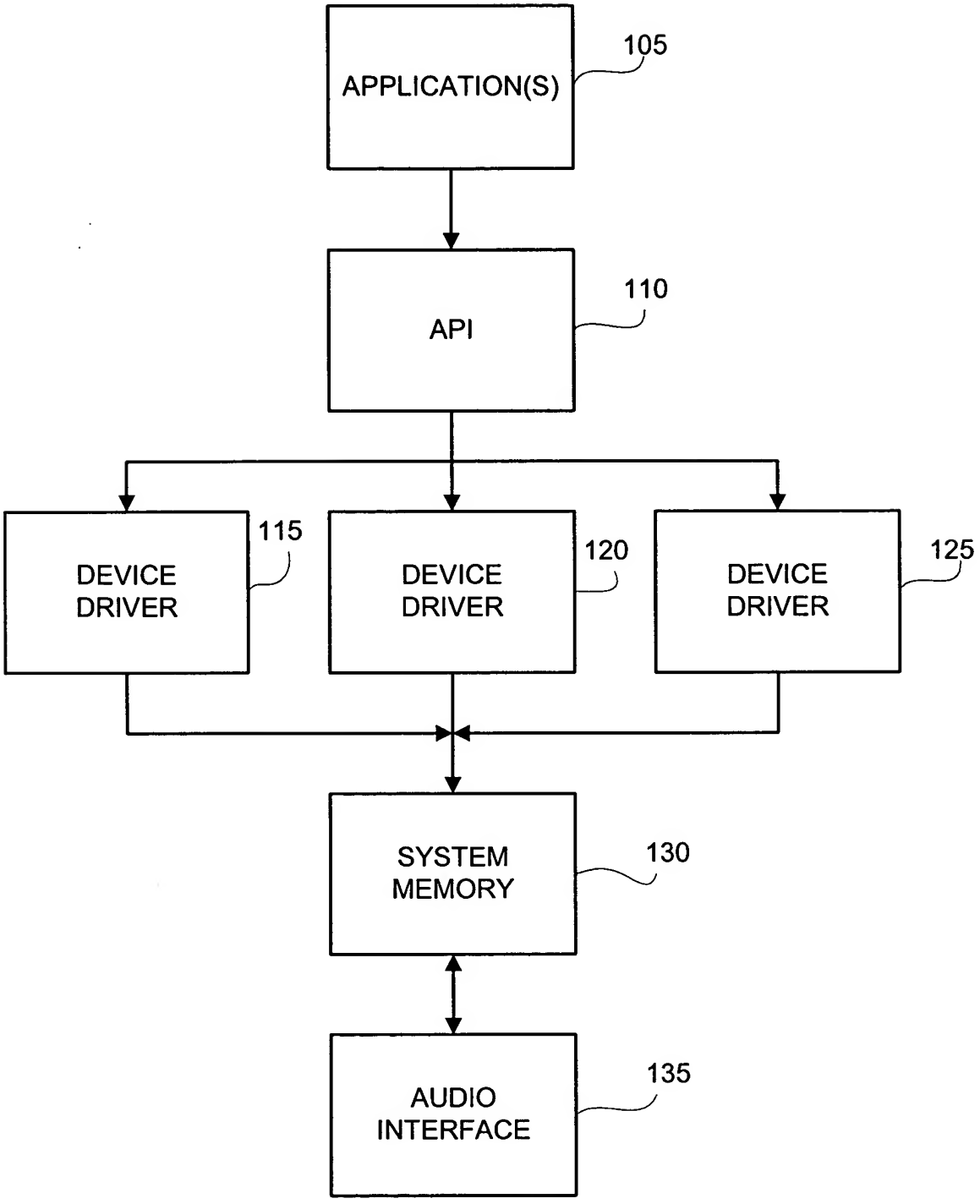
APPLICATION(S)
105
API
110
DEVICE DRIVER
115
DEVICE DRIVER
120
DEVICE DRIVER
125
SYSTEM MEMORY
130
AUDIO INTERFACE
135

FIG. 1

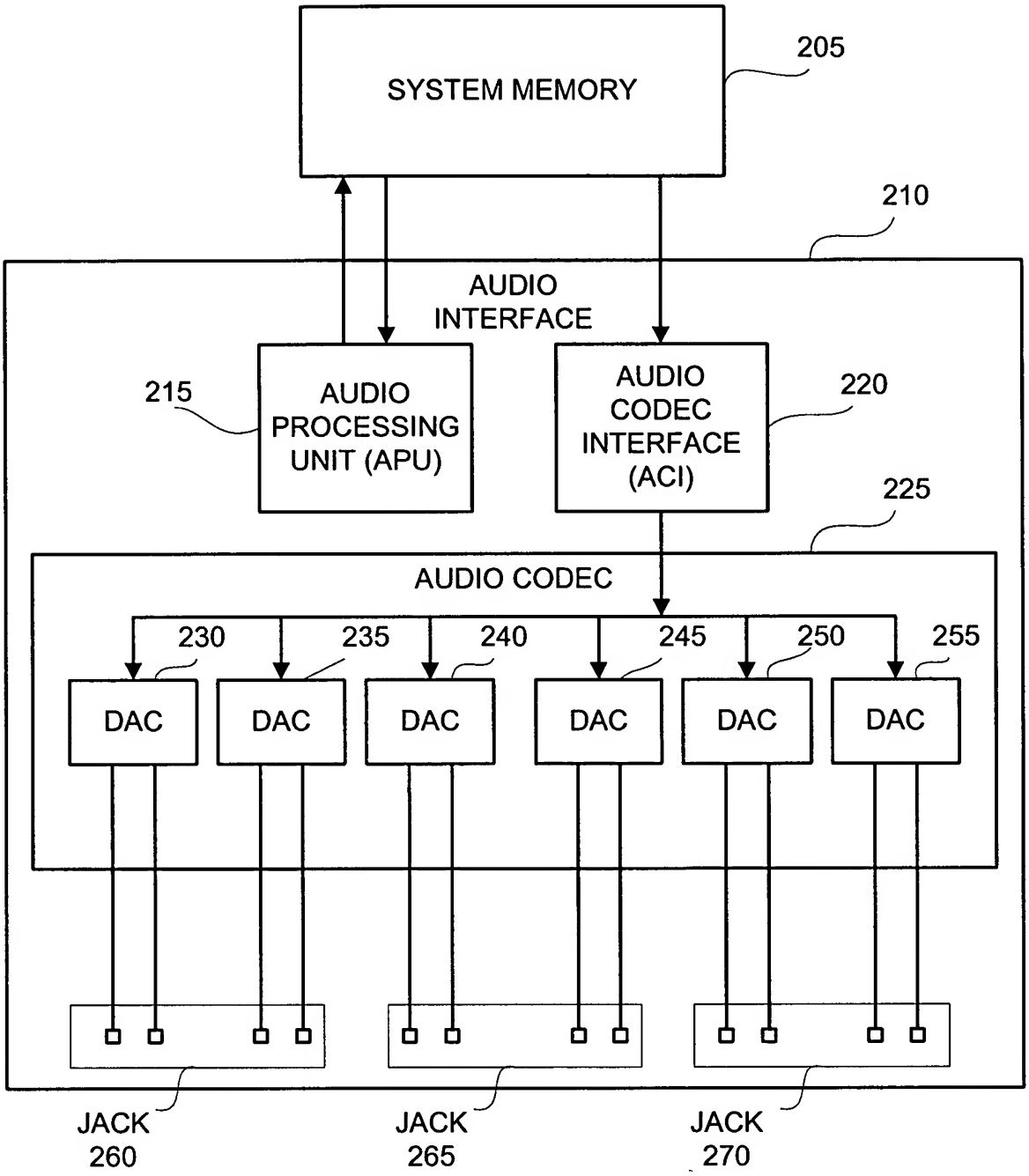
SYSTEM MEMORY
205
210
AUDIO
INTERFACE
215
AUDIO
PROCESSING
UNIT (APU)
AUDIO
CODEC
INTERFACE
(ACI)
220
225
AUDIO CODEC
230
235
240
245
250
255
DAC
DAC
DAC
DAC
DAC
DAC
JACK
260
JACK
265
JACK
270

FIG. 2

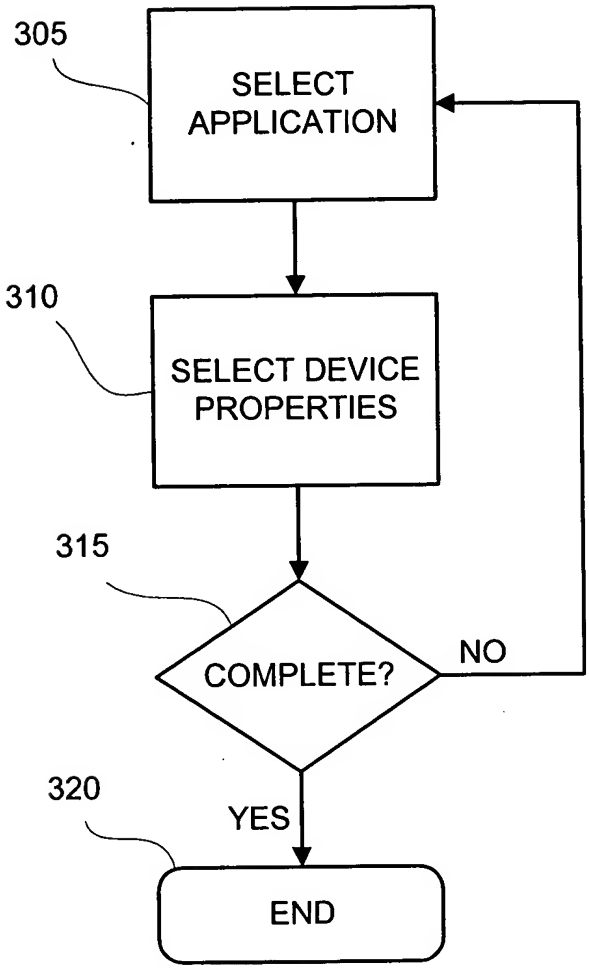
305
SELECT APPLICATION
310
SELECT DEVICE PROPERTIES
315
COMPLETE?
NO
320
YES
END

FIG. 3

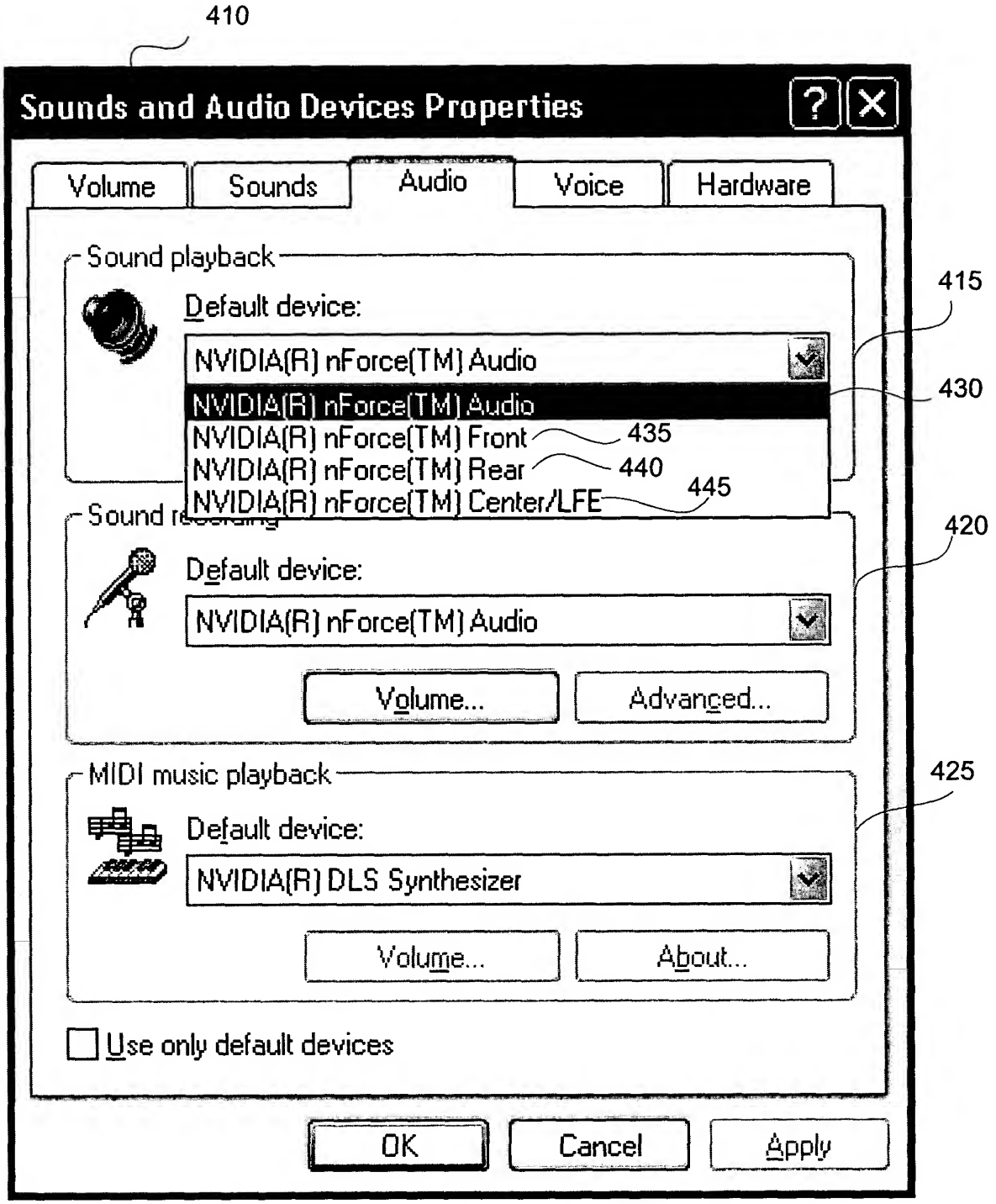
410
Sounds and Audio Devices Properties
Volume
Sounds
Audio
Voice
Hardware
Sound playback
Default device:
NVIDIA(R) nForce(TM) Audio
415
NVIDIA(R) nForce(TM) Audio
NVIDIA(R) nForce(TM) Front
NVIDIA(R) nForce(TM) Rear
NVIDIA(R) nForce(TM) Center/LFE
430
435
440
445
Sound recording
Default device:
NVIDIA(R) nForce(TM) Audio
420
Volume...
Advanced...
MIDI music playback
Default device:
NVIDIA(R) DLS Synthesizer
425
Volume...
About...
Use only default devices
OK
Cancel
Apply

FIG. 4

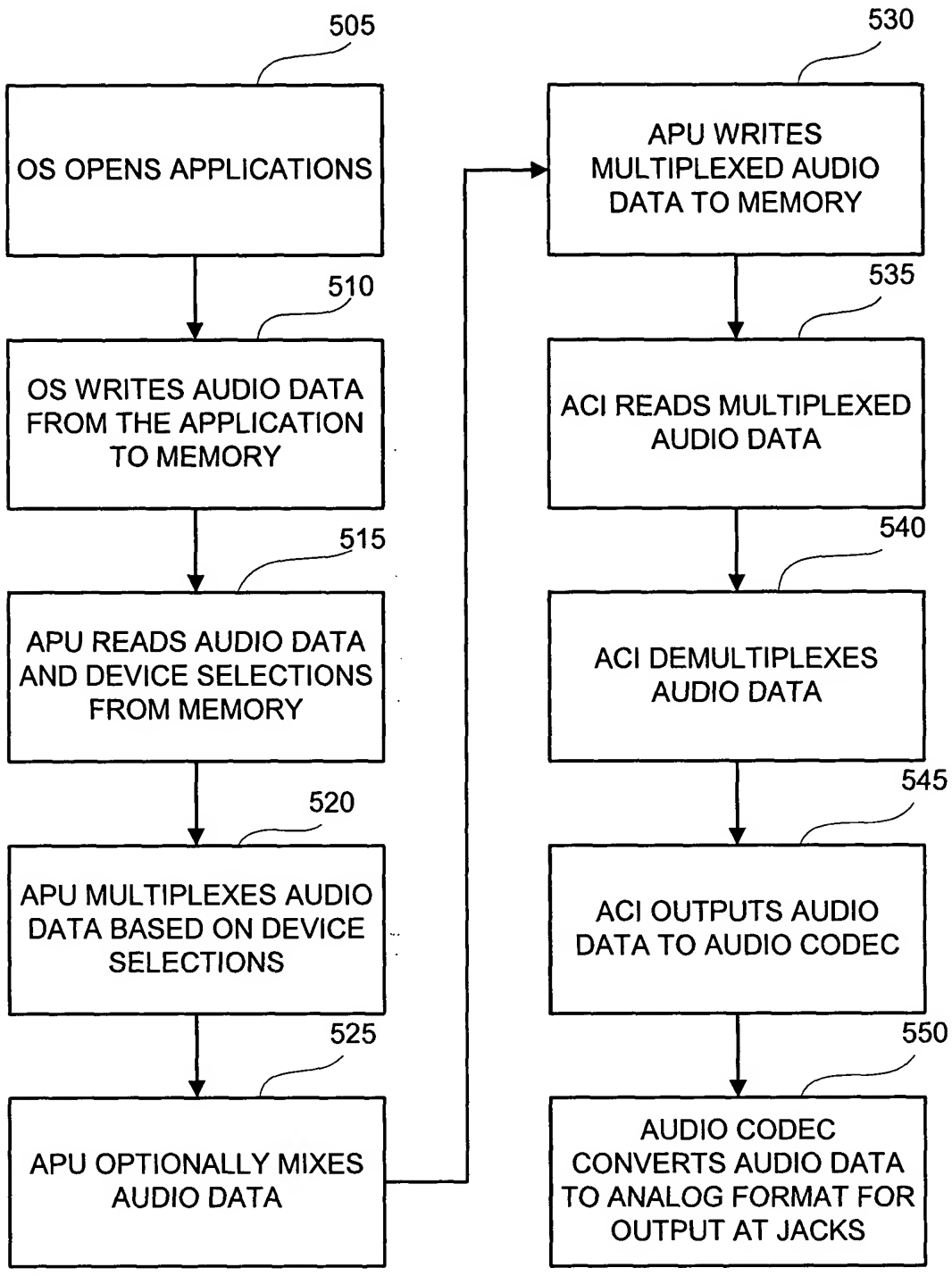
505
OS OPENS APPLICATIONS
510
OS WRITES AUDIO DATA FROM THE APPLICATION TO MEMORY
515
APU READS AUDIO DATA AND DEVICE SELECTIONS FROM MEMORY
520
APU MULTIPLEXES AUDIO DATA BASED ON DEVICE SELECTIONS
525
APU OPTIONALLY MIXES AUDIO DATA
530
APU WRITES MULTIPLEXED AUDIO DATA TO MEMORY
535
ACI READS MULTIPLEXED AUDIO DATA
540
ACI DEMULTIPLEXES AUDIO DATA
545
ACI OUTPUTS AUDIO DATA TO AUDIO CODEC
550
AUDIO CODEC CONVERTS AUDIO DATA TO ANALOG FORMAT FOR OUTPUT AT JACKS

FIG. 5

| APP | DATA | CHANNEL |
|---|---|---|
| 1 | AB/CD/... | 01 |
| 2 | EF/GH/... | 45 |
| 3 | IJ/KL/... | 23 |

FIG. 6A

| | |
|---|---|
| APU 215 OUTPUT | A B I J E F / C D K L G H |
| DEVICE SEQUENCE | 0 1 2 3 4 5 / 0 1 2 3 4 5 |

FIG. 6B

| DATA INPUT 1 | DATA INPUT 2 | OUTPUT |
|---|---|---|
| AB/CD/... | EF/GH/... | ZY/VW/... |

FIG. 7